



The Latest Dirt

Delaware Sediment and Stormwater Program

Spring/Summer 2007

<http://www.swc.dnrec.delaware.gov/SedimentStormwater.htm>

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Announcements

Upcoming Contractor's Training Courses (Blue Card)

This four-hour workshop gives an overview of the Sediment and Stormwater Program, its regulations, and required erosion and sediment control measures in the State of Delaware. The next course will be offered on September 12, 2007, at the Modern Maturity Center in Dover, DE. Please contact Joanne Gedney by e-mail at Joanne.Gedney@state.de.us or by phone at 302-739-9921 for registration information. The course fee is \$60, which includes continental breakfast and a course book.

Next Certified Construction Reviewer (CCR)

This program offers detailed information on sediment and stormwater measures and practices, and is provided as training to individuals who wish to qualify as Certified Construction Reviewers as specified in the Delaware Sediment and Stormwater Regulations, Section 12. In addition, the course will benefit anyone in the government, engineering, consulting, contracting, or land development professions that work in the field of sediment and stormwater management. The course fee is \$195, which includes continental breakfast, lunch, and a course manual. The next CCR Course will held in the Spring of 2008. Please contact Joanne Gedney by e-mail at Joanne.Gedney@state.de.us or by phone at 302-739-9921 to be placed on the waiting list.

Next Recertification Course for Certified Construction Reviewers (CCR)

Certified Construction Reviewer certification is only valid for five years; therefore, CCR recertification is offered to those wishing to continue certification. The next one-day refresher will be held in Wednesday, October 24, 2007. The course fee is \$90, which includes continental breakfast, lunch, and a course manual. Please contact Joanne Gedney by e-mail at Joanne.Gedney@state.de.us or by phone at 302-739-9921 to be placed on the waiting list.

Note:
This will be the last hard copy of *The Latest Dirt*.

In the future, all relevant information will be sent out through the Sediment and Stormwater List Serve on a monthly basis. To subscribe, please send an e-mail to the following address:
Join-dnrec_sedstorm_news@lists.state.de.us

Announcements Continued...

New Staff

Please welcome Jennifer Campagnini, the new Planner IV with the Delaware Sediment and Stormwater Program. Jen has more than 7 years of experience in the field of water resources.

Also, please congratulate Cheryl Gmuer for her promotion from Field Inspector to DNREC Sediment and Stormwater Program Manager I. Paul Evans, former Program Manager I, has accepted a position with the Burlington County Soil Conservation District in New Jersey.



2007 StormCon Conference

This year's StormCon conference will be held from August 20-23, 2007 at the JW Marriott Desert Ridge in Phoenix, Arizona. For more information, please visit the website at <http://www.stormcon.com/sc.html>

2007 Mid-Atlantic Chapter of the International Erosion Control Association

The Mid-Atlantic chapter of the International Erosion Control Association's annual conference will be held in Atlantic City, New Jersey, from September 25-27, 2007. To obtain upcoming registration, please stay tuned to their website at <http://www.macieca.org/>.

Updated List of Approved Biosiol Suppliers

The following suppliers have demonstrated their ability to provide biosoil media for use in bioretention systems and have been approved through calendar year 2007:

Kaye Construction, Seaford, DE
Middletown Materials, Middletown, DE
Select Soils, Kennett Square, PA
Holland Mulch, Edgemoor, DE

The Department has established a testing protocol to ensure the material provided by these suppliers meets current standards and specifications for biosoil media. Anyone interested in being an approved supplier should contact the Sediment & Stormwater Program at 302-739-9921.

Value Stream Mapping

In January of this year, the DNREC Sediment and Stormwater Program embarked upon an effort to bring consistency to the plan review methods of DNREC, Kent Conservation District (KCD) and Sussex Conservation District (SCD), and those agencies' interaction with the local land use planning authorities and DeIDOT. The facilitated method used to evaluate our plan review processes is known as Value Stream Mapping and has been used successfully in manufacturing. Recently, Value Stream Mapping has been applied to health care services and government with success. It has been used successfully within DNREC in the air permitting section.

The group, which included representatives of DNREC, KCD, SCD, DeIDOT, Kent County Planning, Sussex County Planning, and private consulting, underwent about four hours of training on the Value Stream Mapping process, and then set to work to map out the current state of our Sediment and Stormwater plan review process, followed by a proposed future state. The mapping effort took an additional 3 days.

KCD's process was mapped separately from SCD's process so that all were able to recognize steps that worked well in each office. Through the current state mapping effort, it was determined that a typical residential subdivision takes only about 6 days to review from start to finish, but due to the interplay between the conservation districts, consultants, developers, the Counties, and DeIDOT, a typical project will take anywhere from 3 ½ to 5 months to go through the Sediment and Stormwater plan review process. Additionally, the sediment and stormwater reviews are not integrated into the County or municipal plan approval process, except as a final approval requirement prior to recordation.

In the future state of the Sediment and Stormwater Plan review and approval process, you will see the following changes:

Pre-application meetings will be required for all projects. In addition to the sediment and stormwater plan review agency, DeIDOT and Drainage Program will participate in pre-application meetings as necessary. A pre-application meeting submittal checklist has been developed, and focuses primarily on assessment of the existing property, drainage boundaries, discharge points, soils, recharge potential and downstream impacts. The information required for the pre-application meeting has been termed Stormwater Impact Study (SIS). The pre-application meeting and SIS will take place during development of the conceptual plan for the site, so that the plan reviewer may have input on the integration of stormwater management facilities throughout the site. More importantly, however, the pre-application meeting will be required prior to the County or municipality granting preliminary plan approval. An SIS findings report will be forwarded to the local agency so that if there are significant stormwater impacts associated with development of the parcel, those impacts may be considered in the local agency's decision.

Value Stream Mapping continued...

The Sediment and Stormwater Programs of DNREC, KCD and SCD will no longer be actively participating in the PLUS process. Comments concerning known drainage problems, tax ditches, etc. will continue to be delivered by the DNREC Drainage and Stormwater Section. Applicants will be notified at PLUS that they must schedule a required pre-application meeting with the appropriate plan review agency.

A downstream analysis will be required for all sites. The downstream point of analysis will be agreed upon at the pre-application meeting. That point will be located at the next confluence downstream from the point where the site constitutes ten percent of the watershed. Details of the downstream analysis requirements are being developed.

A separate hydrologic and hydraulic (H&H) review will be required. The H&H submittal will be reviewed prior to review of the construction drawings. A separate H&H submittal checklist has been developed, detailing the formatting of information to be presented. When all projects are submitted in a standard format, total review time will be minimized, first because it will be easier to determine if the submittal is complete, and second the reviewer will not spend time hunting for the information in the report.

Construction drawing formats will be standardized. Our goal this summer is to develop a "common look and feel" for Sediment and Stormwater Construction drawings. Again, this will minimize review time because the plan reviewer will know exactly where to look on the drawing to find the information they want.

All checklists used by KCD, SCD, and DNREC will be standard. Once they are developed, the checklists used for the pre-application submittal, the H&H submittal, and the construction drawing submittal will be the same checklist used by KCD, SCD and DNREC.

A firm implementation date has not been established at this time. These agencies may be trying out portions of the new process over the next couple of months in order to work out the kinks in the process and the checklists. Training will be offered to the regulated community in advance of full implementation. It is strongly recommended that you subscribe to the Delaware Sediment and Stormwater List Serve by sending an e-mail to join-dnrec_sedstorm_news@lissts.state.de.us. We will be sending out notices of the training using this list serve.

Current Dam Safety Program Activities

Development of Delaware Dam Safety Regulations – the Dam Safety Regulatory Advisory Committee is preparing regulations that will form the basis of the State's Dam Safety Program. The draft regulations will be released for public review and comment when completed this fall.

Verify and Update Delaware Dam Inventory – a consultant to DNREC has performed a GIS screening of known and potential dam sites within the state to identify dams that appear to meet the criteria in the Dam Safety Law for regulation. Each site will be field-reviewed this summer to develop the State's list of regulated dams.

Dam Safety Evaluation/Rehabilitation Projects – DNREC has several evaluation/rehabilitation projects underway at state-owned dams:

Chipmans Pond Dam in Laurel - design of dam safety and road improvements has been completed, constructing is pending funding.

Records Pond Dam in Laurel – design of dam safety improvements will be completed this summer, construction should begin this fall.

Haven Lake Dam and Silver Lake Dam in Milford - a dam safety evaluation study is underway that will include recommendations for upgrading these dams to meet the provisions of the new Dam Safety Regulations.

Hearns Pond Dam and Williams Pond Dam in Seaford – a dam safety evaluation study has been funded for these two dams and will begin this summer.

New Soils Maps

The Natural Resources Conservation Service (NRCS) has recently updated the soils maps for Kent County and Sussex County. The updated maps for New Castle County are also expected to be released at any time. The new maps will only be available as a digital product, consisting of a tabular database file in Microsoft Access format and a spatial database file in ESRI shapefile format. The digital product is available through NRCS's Soil Data Mart (<http://soildatamart.nrcs.usda.gov/>). Although reports can be generated from the tabular data file for such things as hydrologic soil group, drainage class, etc., these are not contained in the spatial database file as separate fields. The Department has been meeting with NRCS and Delaware Geologic Survey (DGS) staff to determine a means to deliver some of these important soil characteristics in a format that can be imported into a Geographic Information System (GIS). NRCS also has the capability to develop custom reports from the tabular database file. The Department is also working with NRCS to develop a custom report to be used as one of the submittal requirements with a Sediment & Stormwater Plan. Updates will be provided in future editions of the Sediment & Stormwater Listserve.

Lewes Storm Drain Marking A Huge Success

To celebrate Earth Day, over 60 volunteers spread out through the streets of Lewes, Delaware, on April 20 & 21 to place attractive medallions on all storm drains within city limits. The markers read, "No Dumping. Drains to Bay" to remind everyone that dumping down the storm drain can harm water quality in the Delaware Bay.

In order to make this process as organized as possible, GPS coordinates were collected for all storm drains throughout the city. Using this data, maps were generated grouping storm drains into approximately 25. Volunteers were then split into groups of three and sent out with a map of the storm drains to be marked, directions, and all of the supplies they needed in a tote.



In addition, a colored brochure was mailed to all city residents to inform them about the project and remind them that dumping anything down the storm can be harmful to the environment and the water quality of the Delaware Bay.

This project was funded by a DNREC Nonpoint Source Section 319 grant, and was a collaborative effort among numerous partners including the DNREC Sediment and Stormwater Program, City of Lewes Board of Public Works, Center for the Inland Bays, University of Delaware Sea Grant Program, and the University of Delaware Water Resources.

A special thanks to all our partners and volunteers!

How to Contact the Delaware Sediment and Stormwater Program

To contact the DNREC Sediment and Stormwater Program, please call (302) 739-9921.

Our website includes tools useful for both designers and contractors, such as guidance documents on Green Technology and the Erosion and Sediment Control Handbook.

You can also visit us on the web:

<http://www.dnrec.state.de.us/DNREC2000/Divisions/Soil/Stormwater/StormWater.htm>